

ABSTRACT OF THE DISCLOSURE

In a series of working processes of working a metallic wire rod (a) in a coiled condition to a wire rod which is under predetermined conditions, this system comprises: the step of delivering the coiled wire rod at a constant speed thereby to bring the wire rod into a linear condition (a bar) (1); the step of straightening the wire rod into a straight condition by causing the wire rod to pass through a straightening device in one or more places arranged in the direction of travel of the delivered wire rod (2); the step of causing the straightened wire rod to travel in a correct position, judging whether outside diameters and surface defects of the straightened wire rod are within preset prescribed allowances by detecting the outside diameters and surface defects, and outputting and storing results of the detection and judgment (3); and the step of cutting the wire rod in a traveling condition to preset predetermined lengths and delivering the cut wire rod to a mechanism for sorting the cut wire rod according to the quality of the cut wire rod (4).